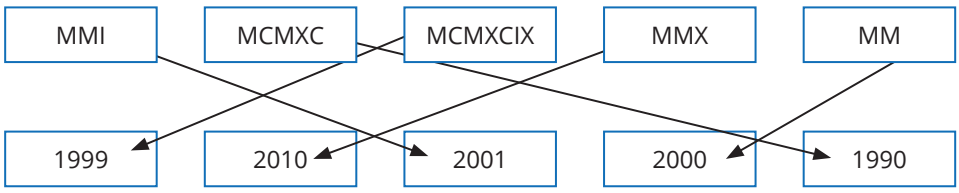
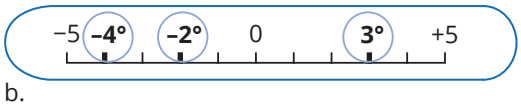
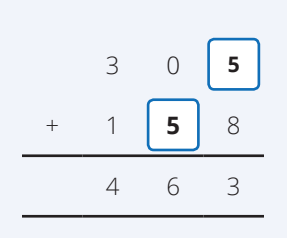
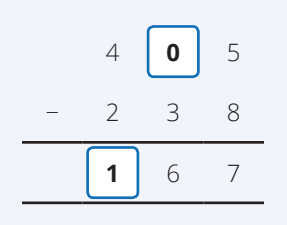
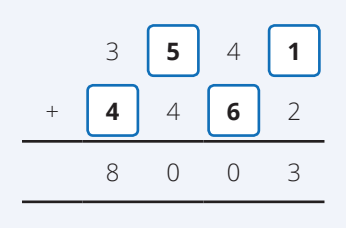
Answers to Scholastic Maths Booster Workbook for KS2

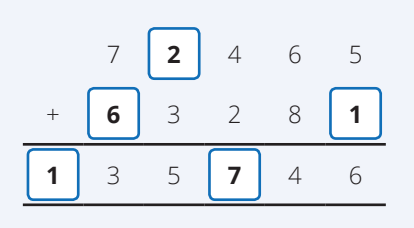
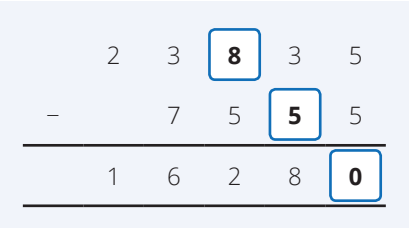
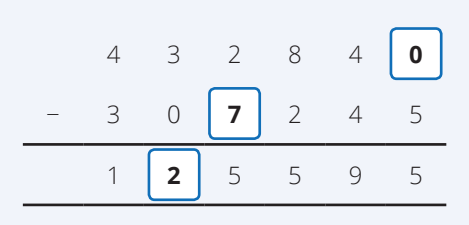
The answers are given below. They are referenced by page number and where applicable, question number. The answers usually only include the information the children are expected to give. There may be some places where the answers vary or multiple answers are acceptable, these are marked as such.

Note that in some places, answers will be varied and subjective from child to child, and a fair degree of marker discretion and interpretation is needed, particularly if children's understanding and skills have to be deduced from their answers.

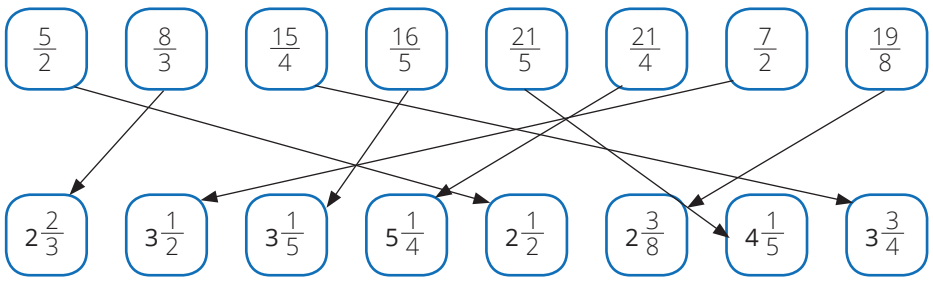
Page number	Question number	Answers
7	1	a. 75,403 b. 5,621,700
	2	a. Sixty-two thousand b. Five million, four hundred and twenty-three thousand, six hundred and eighty-one
	3	947 43,085 80,001 305,221 786,289 842,365
	4	a. thirty thousand b. six hundred c. five hundred thousand d. four million
	5	a. 6020 b. 6000 c. 85,100 d. 8,420,000 e. 8,000,000 f. 300,000
	6	a. 11 b. 25 c. 19 d. 300 e. 60 f. 95
	7	
9	1	a.  b. 
	2	a. −11 −7 −3 1 5 b. −7 −4 −1 2 5
	3	11°C (minus answers should be marked as incorrect)
	4	–18°C
	5	7.5m
	6	£375

<table>
<tr><th>Page number</th><th>Question number</th><th>Answers</th></tr>
<tr><td rowspan="3">10</td><td>1</td><td>1, 3, 5</td></tr>
<tr><td>2</td><td>a. 6
b. 24
c. 30</td></tr>
<tr><td>3</td><td>a. 21 or 28
b. 497</td></tr>
<tr><td rowspan="4">11</td><td>1</td><td><table><tr><th></th><th>Prime</th><th>Not prime</th></tr><tr><td>Even</td><td>2</td><td>4 6 8 10</td></tr><tr><td>Odd</td><td>3 5 7</td><td>1 9</td></tr></table></td></tr>
<tr><td>2</td><td>5 and 11</td></tr>
<tr><td>3</td><td>91, 97</td></tr>
<tr><td>4</td><td>a. 49
b. 13
c. 36</td></tr>
<tr><td rowspan="6">13</td><td>1</td><td>a. 64
b. 957
c. 7524
d. 557
e. 96
f. 16,000</td></tr>
<tr><td>2</td><td>a. 66
b. 367
c. 895
d. 153
e. 3125
f. 73,000</td></tr>
<tr><td>3</td><td>a. 973
b. 10,052
c. 1100
d. 405
e. 749
f. 9400</td></tr>
<tr><td>4</td><td>a. 363
b. 1552
c. 2392
d. 155
e. 500
f. 202</td></tr>
<tr><td>5</td><td>a. 4700
b. 2400
c. 40,000
d. 3500
e. 9000
f. 8400</td></tr>
<tr><td>6</td><td>a. 69
b. 72
c. 120
d. 250
e. 930
f. 560</td></tr>
</table>

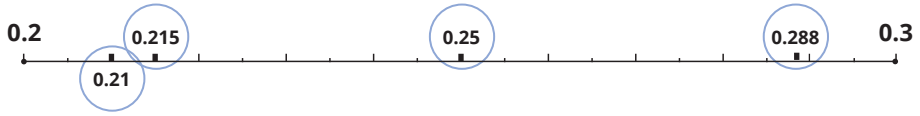
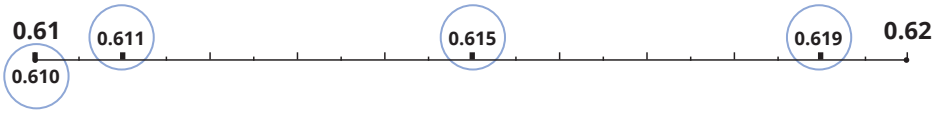
Page number	Question number	Answers
13	7	a. 843 b. 40 c. 10 d. 25,000 e. 300 f. 30
	8	a. 10 b. 1 c. 3 d. 14 e. 5 f. 8
15	1	692
	2	4202
	3	1,019,848
	4	40,025
	5	11,014
	6	3,477,041
	7	228
	8	2825
	9	6268
	10	191,198
	11	13,808
	12	2,832,158
16	13	514,001
	14	222,759
	15	
	16	
	17	

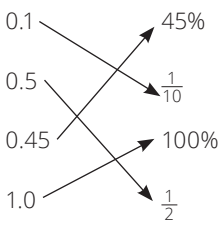
Page number	Question number	Answers
16	18	
	19	
	20	
17	21	43,325
	22	7,973,110
	23	A clear explanation shows a subtraction as an inverse calculation, e.g. 6,477,141 – 4,381,305 = 2,095,836.
19	1	384
	2	805
	3	3375
	4	11,481
	5	79,688
	6	56,241
	7	615
	8	435
	9	6624
	10	12,104
	11	88,985
	12	269,955
20	13	**3** 2 x 1 4 1 2 8 3 **2** 0 4 4 8
	14	4 **3** x 3 2 **8** 6 1 2 9 0 1 **3** 7 6

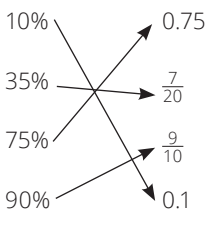
Page number	Question number	Answers
20	15	5 4 x **3** 3 1 **6** 2 1 6 2 0 1 **7** 8 **2**
	16	**1** 2 5 x 1 **4** 5 0 0 1 2 **5** 0 1 7 5 0
	17	3 4 2 x **4 4** 1 3 6 8 1 3 6 8 0 1 5 0 4 8
	18	2 **5** 0 3 x 1 **5** 1 2 5 1 5 2 5 0 3 0 3 **7 5 4** 5
	19	62,500 nails
21	20	£6875
	21	336 pieces
	22	8760 hours
23	1	84
	2	112
	3	124 r2
	4	242 r1
	5	3916 r1
	6	1618 r1
	7	214
	8	221 r6
	9	612 r3
	10	608 r1
	11	1168 r3
	12	89 r1
	13	53 r1
	14	522 r4
	15	312 r2
25	1	31
	2	22
	3	121
	4	111 r5
	5	233 r6
	6	416 r3
	7	30
	8	63
	9	104 r6
	10	112 r3
	11	20 r13
	12	500 r2

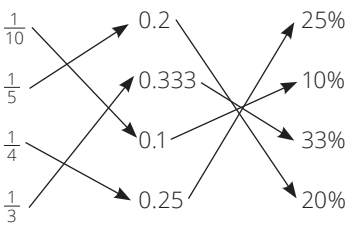
Page number	Question number	Answers
26	13	125 pieces
	14	6050
	15	£131 per person
	16	£133 each with £5 left over
27	17	7 sweets
	18	634
	19	£9.50
29	1	a. Wrong: 210 + 50 = 260 and 1 + 3 = 4, so the answer is 264, or 260 to the nearest 10 b. Wrong: 2845 + 3140 is approximately 6000 c. Right: The two numbers add to 3,500,000, which rounds up to 4,000,000
	2	a. 280 b. 8800 c. 90,000 d. 100,000
	3	a. Right: 82 – 35 = 47, or 82 – 47 = 35 b. Right: 39 + 59 = 98 c. Wrong: 257 + 67 = 324 d. Right: 373 – 217 = 156, or 373 – 156 = 217
	4	Wrong: 12 × 73 = 876
31	1	a. = b. > c. = d. < e. = f. < g. >> h. <
	2	a. $\frac{3}{10}$ $\frac{1}{2}$ $\frac{12}{20}$ $\frac{6}{8}$ $\frac{4}{5}$ b. $\frac{1}{2}$ $\frac{7}{12}$ $\frac{2}{3}$ $\frac{3}{4}$ $\frac{5}{6}$ c. $\frac{4}{10}$ $\frac{1}{2}$ $\frac{8}{15}$ $\frac{3}{5}$ $\frac{2}{3}$ d. $\frac{2}{30}$ $\frac{1}{10}$ $\frac{7}{60}$ $\frac{2}{15}$ $\frac{3}{20}$
	3	

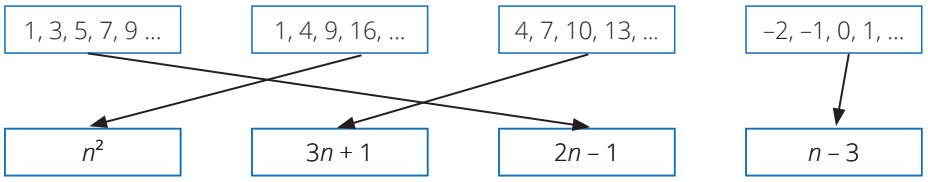
Page number	Question number	Answers
31	5	a. > b. = c. > d. < e. < f. < g. = h. >
	6	a. 23/16 3 1/6 3 2/3 13/3 b. 3 ½ 2 4/5 27/10 12/5
33	1	a. 3/5 b. 5/6 c. 1/7 d. 1/5 or 2/10
	2	a. 11/15 b. 9/14 c. 1 1/3 or 1 2/6 d. 11/16
	3	a. ¼ b. 1/6 c. 1/15 d. 5/8
	4	a. 5 5/6 b. 9 7/30
	5	a. 2 ½ b. 17/24
	6	4 ¼
35	1	a. 1/12 b. 2/9
	2	a. 6 1/2 b. 2
	3	a. ¼ b. 1/10
	4	6 cars
	5	2/5 of the pack
	6	1/7 each
	7	625 potatoes

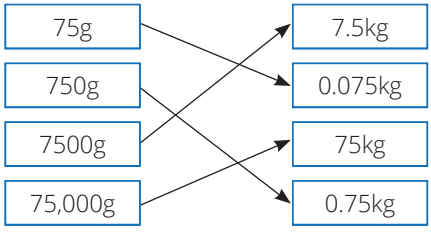
Page number	Question number	Answers
37	1	a. seven tenths b. one tenth c. nine thousandths d. five hundredths e. four tenths f. seven thousandths
	2	a. 2.4 b. 0.43 c. 1.7 d. 3.12 e. 4.8 f. 0.78
	3	a.  b.  c. 
	4	a. 1.4, 1.6 b. 0.24, 0.27 c. 1.935, 1.93
38	5	a. 0.47 b. 1280 c. 0.34 d. 0.007
	6	a. 0.798 b. 2.315 c. 0.418 d. 0.73 e. 4.714 f. 5.556 g. 375 h. 1.787
	7	£16.14
39	8	£7.64
	9	£12.25
	10	£3.24
	11	£6.75
	12	£1.32 each

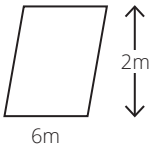
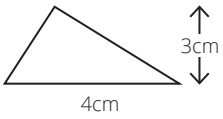
<table>
<tr><th>Page number</th><th>Question number</th><th>Answers</th></tr>
<tr><td rowspan="5">41</td><td>1</td><td>a. 0.1, ¼, 50%, 0.9
b. 0.2, 25%, 1/3, 0.4
c. 65%, 2/3, 0.7, 4/5
d. 7%, 0.075, 10%, 1/8</td></tr>
<tr><td>2</td><td>a.
 

b.
 

c.
 
</td></tr>
<tr><td>3</td><td><table>
<tr><td>Fraction</td><td>1/2</td><td>1/4</td><td>1/3</td><td>3/4</td><td>1/5</td><td>1/10</td><td>1/100</td><td>1/1000</td><td>5/100</td><td>5/1000</td></tr>
<tr><td>Decimal</td><td>0.5</td><td>0.25</td><td>0.333</td><td>0.75</td><td>0.2</td><td>0.1</td><td>0.01</td><td>0.001</td><td>0.05</td><td>0.005</td></tr>
<tr><td>Per cent</td><td>50%</td><td>25%</td><td>33.3%</td><td>75%</td><td>20%</td><td>10%</td><td>1%</td><td>0.1%</td><td>5%</td><td>0.5%</td></tr>
</table></td></tr>
<tr><td>4</td><td>a. 20%
b. 25%
c. 47%
d. 33.3%
e. 98%
f. 2%</td></tr>
<tr><td>5</td><td>a. 0.78
b. 0.47
c. 0.01
d. 0.99
e. 0.666
f. 0.5</td></tr>
<tr><td rowspan="5">43</td><td>1</td><td>a. 0.1
b. 0.3
c. 0.4
d. 0.2</td></tr>
<tr><td>2</td><td>a. 4
b. 12
c. 16
d. 8</td></tr>
<tr><td>3</td><td>a. 16
b. 114
c. 1250
d. 1120</td></tr>
<tr><td>4</td><td>a. 1200g or 1.2kg
b. 6 ¼ gallons</td></tr>
<tr><td>5</td><td>£25.56</td></tr>
</table>

Page number	Question number	Answers
45	1	a. 5 b. 2.5 c. 9 d. 1/2
	2	a. 3 b. 40cm, 10m
	3	a. 3 b. 3cm c. 15cm
	4	6
47	1	a. £9 b. £31
	2	a. 195 mins b. 645 mins
	3	= 3 + 2, £27
	4	a. 41°F b. 68°F
	5	a. 15°C b. 50
	6	a. 16, 19 b. 29, 36
	7	
49	1	a. 3 b. 12 c. 15 d. 4
	2	a. 6 b. 4 c. 28 d. 27
	3	a. 3 b. 37 c. 16 d. 13 e. 15 f. 6

<table>
<tr><th>Page number</th><th>Question number</th><th>Answers</th></tr>
<tr><td rowspan="3">49</td><td>4</td><td>a.
<table><tr><td>r</td><td>0</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td></tr><tr><td>s</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td>0</td></tr></table>
b.
<table><tr><td>c</td><td>0</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td></tr><tr><td>d</td><td>12</td><td>10</td><td>8</td><td>6</td><td>4</td><td>2</td><td>0</td></tr></table>
c.
<table><tr><td>g</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td></tr><tr><td>h</td><td>0</td><td>3</td><td>6</td><td>9</td><td>12</td><td>15</td><td>18</td></tr></table>
d.
<table><tr><td>y</td><td>2</td><td>5</td><td>8</td><td>11</td><td>14</td><td>17</td><td>20</td></tr><tr><td>z</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td>0</td></tr></table></td></tr>
<tr><td>5</td><td>a. = 9 –
b. = 9 – 3
c. = 3 –</td></tr>
<tr><td>6</td><td><table><tr><td>Number of adults</td><td>0</td><td>1</td><td>2</td><td>3</td></tr><tr><td>Number of children</td><td>6</td><td>4</td><td>2</td><td>0</td></tr></table></td></tr>
<tr><td rowspan="2">51</td><td>1</td><td>a. 85mm 75cm 1.25m 0.02km
b. 0.295kg 0.325kg 330g 2952g
c. 120cl 1.05 litres 1.1 litres 1125ml
d. 7200s 2 ¼h 2hrs 20mins 150 mins</td></tr>
<tr><td>2</td><td> 
</td></tr>
<tr><td rowspan="4">52</td><td>3</td><td>a. 5litres
b. 32km</td></tr>
<tr><td>4</td><td>a. 13cm, 67.5cm
b. 4.83km, 24.15km</td></tr>
<tr><td>5</td><td>a. 72 grams
b. 1.25kg, 625 grams</td></tr>
<tr><td>6</td><td>a. Level should be shown at 450ml, 550 ml</td></tr>
<tr><td rowspan="2">53</td><td>6</td><td>b. 80ml
c. 375 litres</td></tr>
<tr><td>7</td><td>a. 6 hours 20 minutes, 1 hour 10 minutes
b. 38 days, 912 hours
c. 5400 seconds, 21:10 or 9:10pm
d. 4:06pm, 10:42pm</td></tr>
</table>

<table>
<tr><th>Page number</th><th>Question number</th><th>Answers</th></tr>
<tr><td rowspan="5">55</td><td>1</td><td>a. 24cm
b. 24m</td></tr>
<tr><td>2</td><td>a. 100m^2
b. 240cm^2</td></tr>
<tr><td>3</td><td>
<table>
<tr><th>Shape</th><th>Example</th><th>Formula to use</th><th>Area</th></tr>
<tr><td>Parallelogram</td><td> 
</td><td>A = bh = 2 × 6</td><td>= 12m^2</td></tr>
<tr><td>Triangle</td><td> 
</td><td>A = ½ bh = ½ × 3 × 4</td><td>= 6cm^2</td></tr>
</table>
</td></tr>
<tr><td>4</td><td>a. 60cm^3
b. 343m^3</td></tr>
<tr><td>5</td><td>a. 12.5m^2
b. 15m
c. 37.5m^3</td></tr>
<tr><td rowspan="4">57</td><td>1</td><td>a. Parallelogram
b. Rhombus
c. Kite</td></tr>
<tr><td>2</td><td>a. Check sides are 3cm, angles are all 60°
b. Check base is 4cm and both bottom angles are 65°
c. Angles should be 90°, 50° and 40°, and base should be 3cm</td></tr>
<tr><td>3</td><td>Each triangle should have a tab on one side only, and it should be the same side for every triangle; square-based pyramid</td></tr>
<tr><td>4</td><td>b is incorrect because the two squares on the left side will overlap.</td></tr>
<tr><td rowspan="3">59</td><td>1</td><td>a. to d. Check that angles are drawn accurately using a protractor.</td></tr>
<tr><td>2</td><td>a. = 118°, = 62°, = 118°
b. , and all = 90°
c. = 110°, = 70°, = 70°
d. = 19°</td></tr>
<tr><td>3</td><td>a. and b. Check both circles are accurate and with the radius and diameter drawn for each.</td></tr>
<tr><td rowspan="4">61</td><td>1</td><td>A (1 , 3) B (–3 , 7) C (–4 , –3) D (–6 , 0) E (8 , –7) F (0 , 5)</td></tr>
<tr><td>2</td><td>Check that children have plotted each point correctly.</td></tr>
<tr><td>3</td><td>Check that children have translated the shape correctly, and have shown the translated shape clearly.</td></tr>
<tr><td>4</td><td>Check that children have reflected the shape correctly, and have shown the reflected shape clearly.</td></tr>
<tr><td rowspan="4">63</td><td>1</td><td>a. cat 12, dog 9, hamster 6, none 3
b. cat 2/5, dog 3/10, hamster 1/5, none 1/10
c. cat 144°, dog 108°, hamster 72°, none 36°</td></tr>
<tr><td>2</td><td>a. $12
b. Accept any amount between £5 and £6, but not the exact amounts £5 or £6
c. Accept any amount between $1.2 and $1.8, but not the exact amounts $1.2 or $1.8
d. $120</td></tr>
<tr><td>3</td><td>a. 36
b. 95</td></tr>
<tr><td>4</td><td>21°C</td></tr>
</table>